

2008 Defense Modeling & Simulation Conference (DMSC)

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Mr. John Logsdon

Dr. Dave Nash

Mr. Mike Barnes

**DPM OneSAF** 

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## Agenda

Program Overview	10:30 – 11:00
Simulation Overview	11:00 – 12:00
Small Urban Operations Demonstration	12:00 – 12:30
• Lunch	
JME Terrain Visualization Demo	13:00 – 13:15
OneSAF Architecture Overview	13:15 – 13:45
HUMINT Demo	13:45 – 14:00
OneSAF Development Process	14:00 – 14:30
ACRT Demo	14:30 – 14:45
Handover process / summary / Q&A	14:45 – 15:00



## One Semi-Automated Forces (OneSAF)

- A composable, next generation simulation architecture supporting both Computer Generated Forces (CGF) and SAF operations
- Provides a full range of operations, systems, and control processes (TTP)
- Supports modeling from entity up to brigade level
- Supports DIS, HLA, MSDL, JC3IEDM and USA ABCS interoperability
- Provides variable levels of composability, fidelity and representation
- Supports multiple Army M&S domain (ACR, RDA, TEMO) applications.

• Urban Operations with Contemporary Operating Environment (COE) Focus

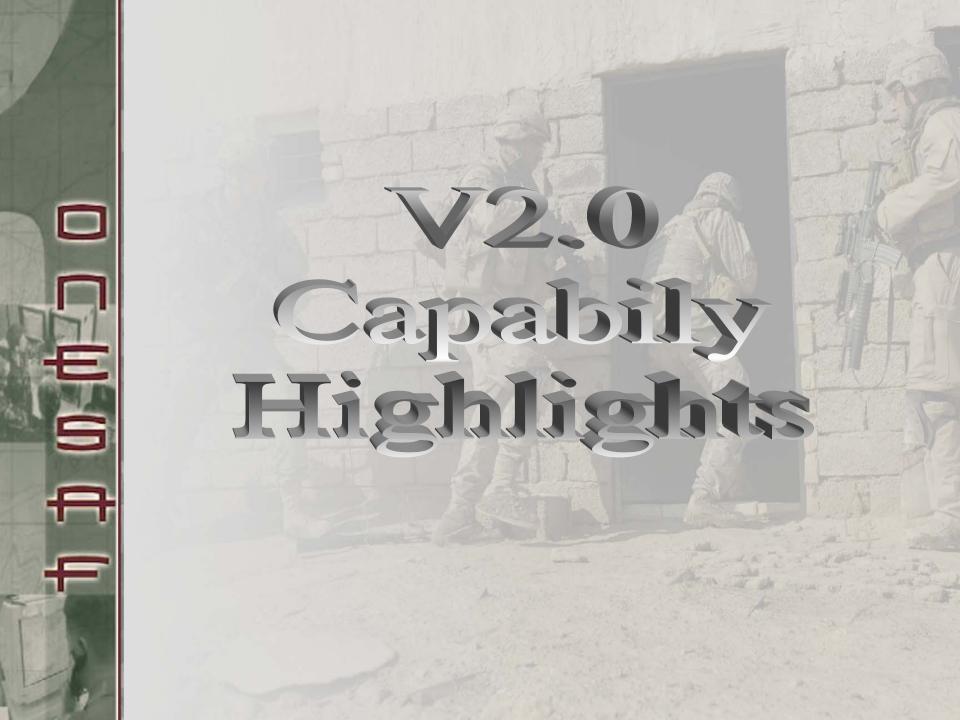
Software only

Platform Independent (Linux / Windows)

• V2.0 Released Feb 2008

Capable of replacing US Army legacy entity-based simulations: BBS, OTB / ModSAF, CCTT / AVCATT SAF, Janus (A&T), JCATS MOUT **Software Distribution to:** 

- RDECs / Battle Labs / Active Duty Brigades & Battalions
- Service / Joint Organizations
- International Partners
- USG / Academia





## V2.0 Capabilities Released 29 Feb 08

- Scale up to 30k entities (4x improvement over v1.0)
- Improved data collection tool for experimental/analytical use case
- Improved parametric data loading (loading classified data direct from AMSAA)
- Improved terrain representations (SWA terrain with over 30k buildings, 300x300km, 250 Ultra-High Resolution Bldgs)
- Additional/improved COE behaviors (Hijack, sniper, IED emplacement, Unconventional infiltration, etc.)
- C2 stimulation (ABCS) by all entity fidelity types (v1.0 only allowed higher fidelity entities to stimulate C2 systems)
- SMDC (co-developer) additional satellite models integrated



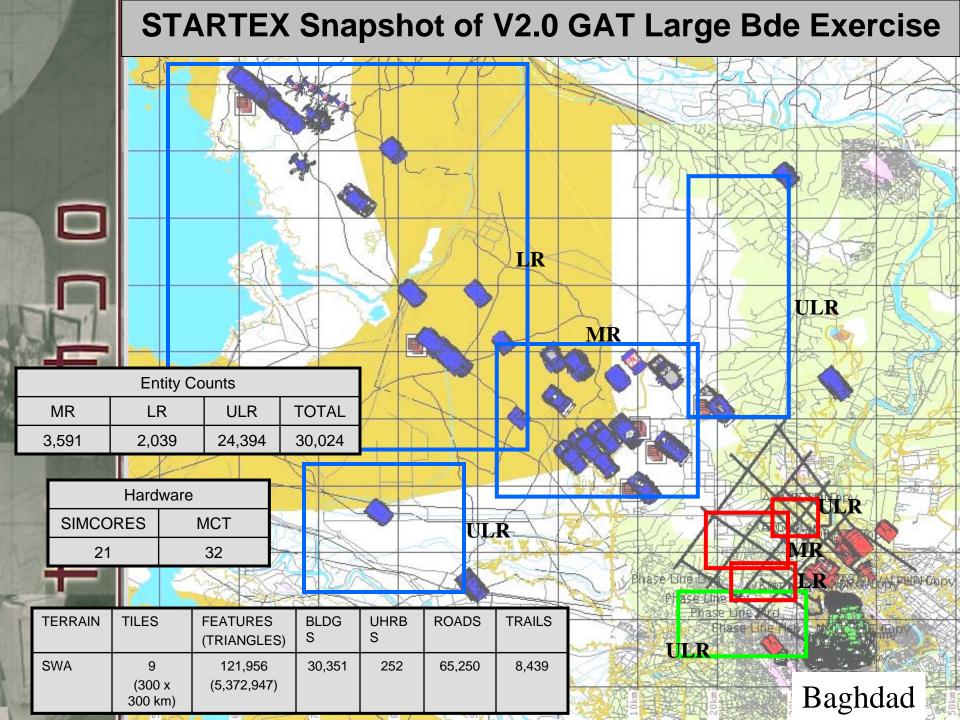
## Scalability V1.0 vs. V2.0 GAT Data Comparison

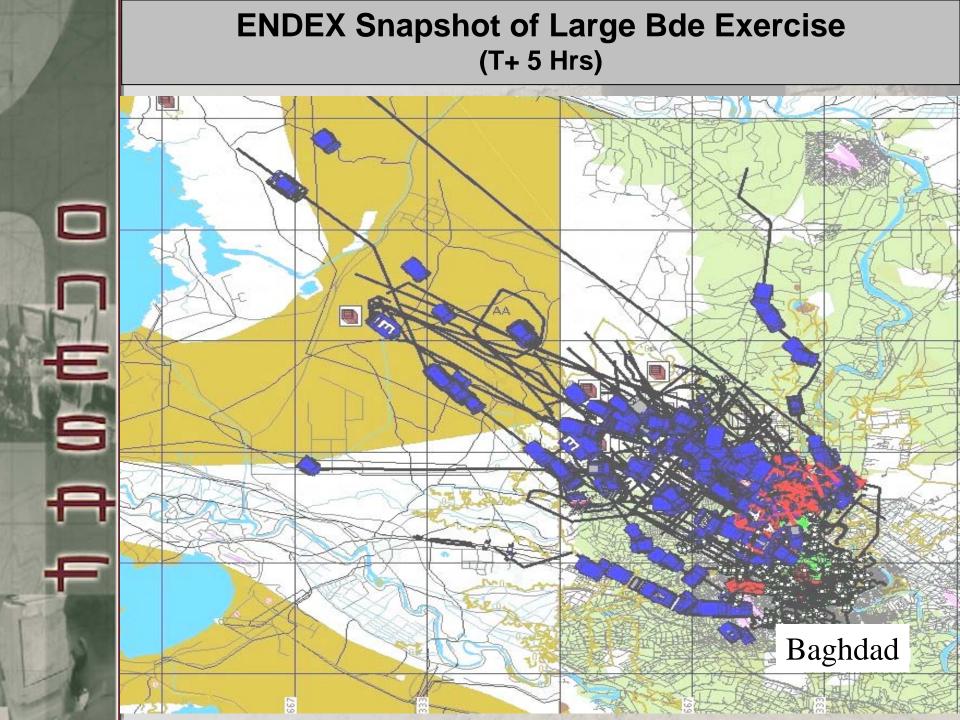
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VERSION	TERRAIN	TILES	FEATURES (TRIANGLES)	BUILDINGS	UHRBS	ROADS	TRAILS
V1.0	NTC	4	12,993 (1,310,048)	136	9	8,834	732
	JRTC	4	11,969 (1,256,147)	444	21	3,017	0
V2.0	SWA	9	121,956 (5,372,947)	30,351	252	65,250	8,439

#### **TERRAIN**

VERSION	Large Scale Exercise Entities				HARDWARE		
	H R	MR	LR	ULR	TOTAL	SIMCORES	MCT (Workstations)
V1.0		2,332	4,453	4	6,785	19	50
V2.0		3,591	2,039	24,394	30,024	21	32

#### **RESOURCES**

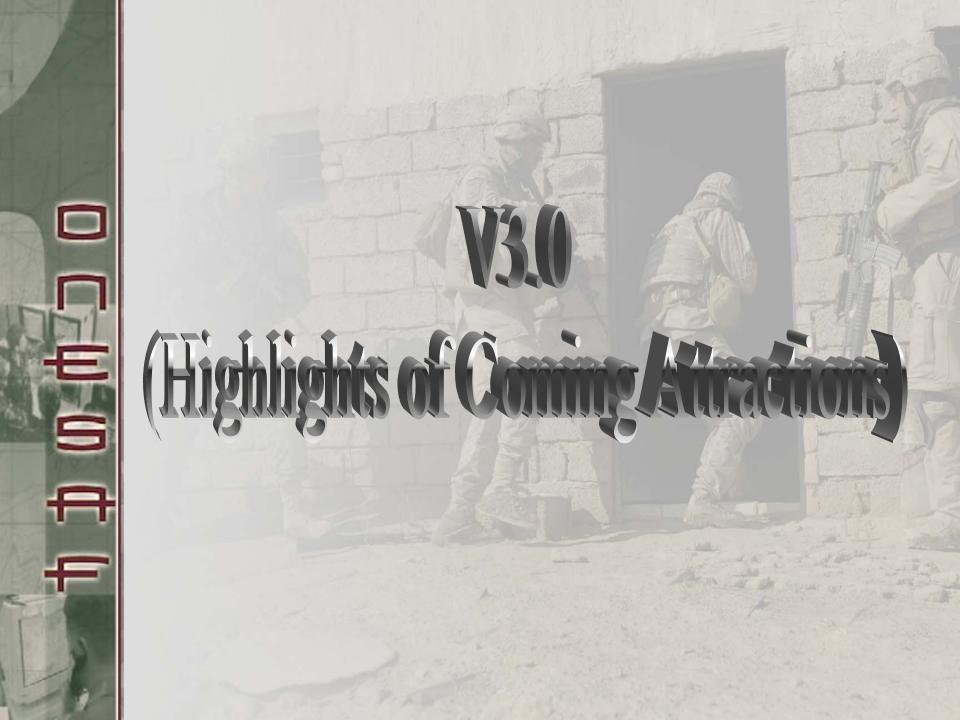






#### **Recent Accomplishments**

- FY07 SE Core successful handover/integration of first year required capabilities for AVCATT/CCTT (terrain, environment, COE)
- FCS utilization of OneSAF for Tactical Leaders Course training AETF Leaders on SO1 systems employment
- Air Assault Expeditionary Force (AAEF) utilization of OneSAF as ground combat model for Spiral D
- OneSAF International v1.0 fielded
  - ITSEC Partnership for Peace (PfP) Federation Demo
- C4ISR-On the MoveTestbed (Ft. Dix CERDEC) utilization of OneSAF as ground combat model for FY07 experimentation
- OneSAF fielded as ground model for USMC Combined Arms C2 Training Upgrade System (CACCTUS) – Used now for training at 29 Palms





## FY08 Efforts A Sample

#### Developmental:

- BCS3 Stimulation (logistics C2)
- Counter IED Models
- Improved RWA/FWA Mobility models (supports SE Core/AVCATT work)
- Computer Network Attack Model (THREATS Requirement)
- Refined FCS system models (authoritative representations)
- Usability (new GUI for TEMO Use Cases)
- Robotics Models (RSJPO funded) for collective training
- Continued performance enhancements in urban environments

#### Events:

- TRADOC Complex Web Defense (CWD) Experiment
- FCS Spinout One
- SE Core Integration for FY08 AVCATT/CCTT
- AAEF Spiral E





# One Semi-Automated Forces Spring 08 Users Conference April 7 - 11

### **Agenda Highlights**



V2.0 Capabilities
Virtual Devices
Gaming Interfaces
Co Developer Briefings
New Release Information
Developer Q&A Sessions
Guest Speakers

Demos

Location: Holiday Inn Select UCF, Orlando

Registration: <a href="http://www.onesaf.net/conference.php">http://www.onesaf.net/conference.php</a>

Additional Details: <a href="http://www.onesaf.net/">http://www.onesaf.net/</a>